LED Light Bar 8

ORDERCODE 42199

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!
You have bought a great, innovative product from Showtec.
The Showtec LED Light Bar 8 brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.
We design and manufacture professional light equipment for the entertainment industry.
New products are being launched regularly. We work hard to keep you, our customer, satisfied.
For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec.
So next time, turn to Showtec for more great lighting equipment.
Always get the best -- with Showtec !

Thank you!

Showtec

Showtec LED Light Bar 8™ Product Guide

Warning

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- Showtec LED Light Bar 8
- 2 brackets and screws
- Volex IEC powercable 1,5m
- User manual

LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. It is estimated that a viable lifespan of 40,000 to 50,000 hours will be achieved under normal operational conditions. If improving on this lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- Never look directly into the light source.
- Never cover the air vents, otherwise the device will get to hot.
- Never use the device during thunderstorms, unplug the device immediately.
- Never leave various parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within children's reach, as they are potential sources of danger.
- Do not insert objects into air vents.
- Do not open the device and do not modify the device.
- Do not connect this device to a dimmerpack.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Do not switch the device on and off in short intervals, as this would reduce the system's life.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- Make sure that no side forces can impact on the truss system.
- The cable insert or the female part in the device must never be strained. There must always be sufficient cable to the device. Otherwise, the cable may be damaged which may lead to deadly electrical shocks.
- If the external cable is damaged, it has to be replaced by a qualified technician.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. The device must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use fuses of same type and rating only.
- The user is responsible for correct positioning and operating of the LED Light Bar. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION ! EYEDAMAGES !.
Avoid looking directly into the light source.
(meant especially for epileptics) !

Operating Determinations

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The minimum distance between light-output and the illuminated surface must be more than 1 meter.
- The maximum ambient temperature t_a = 45°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 45° C.
- If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash, etc.

You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !
Always let the installation be carried out by an authorized dealer !

Procedure:

- If the LED Light Bar 8 is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the LED Light Bar 8, with the mounting-bracket, to the trussing system.
- The LED Light Bar 8 must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the LED Light Bar 8, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
⏚	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

Improper installation can cause serious damage to people and property !

⚠ Return Procedure ⚠

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

1) Your name
2) Your address
3) Your phone number
4) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features

The LED Light Bar 8 is a LED system from Showtec.

- LEDs: 240 RGB high intensity 10mm LEDs (Red 96, Green 72, Blue 72)
- Beam angle: 30 °
- Inexpensive batten effect
- 8 sections
- Compact size
- Output: 800Lumen
- Lux @2m: 613,3
- Max. Distance: 15m
- Efficacy (lm/W) 36W
- Drive Current: 25mA
- Refresh rate: 400Hz
- Color Range: RGB
- Power Supply: 100-240V AC
- Control Mode: DMX512
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Peak Power 130 Watt
- Continuous Power 60 Watt
- 3 pin female XLR socket and 3 pin male XLR socket
- IEC Power In and IEC power Out
- Linkable via 3-pin XLR cable
- Built-in microphone
- Black aluminium material
- LED Digital display
- Fuse: 250V / 1A
- Built-in programs mode, Auto running mode, DMX mode, slave mode, sound-activated mode.
- DMX controlled
- Selectable 2, 3, 4, 7, 14 and 26 DMX channel operation
- Dimensions: 1070 x 65 x 88 mm
- Weight: 1,74 kg

NOTE: Knowledge of DMX is required to fully utilize this unit.

Overview

Fig. 1

1) Adjustment Screw + Mountingbracket for Truss mounting
2) Total LED Light Bar 240 LEDs

Backside

Fig. 2

3) IEC Power In
4) Ground
5) Fuse 250V / 1A
6) Menu Buttons + LED display
7) DMX signal connector (IN) 3-pin
8) DMX signal connector (OUT) 3-pin
9) IEC Power Out

Installation

Remove all packing materials from the LED Light Bar 8. Check that all foam and plastic padding is removed. Connect all cables.
Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

Control Modes

There are 6 modes for using the LED Light Bar 8:

- Manual control (Static)
- Built-in Programs
- Macro Colors (Auto Run)
- Sound-controlled
- Master/Slave
- DMX512

One LED Light Bar 8 (Manual Control)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. When the LED Light Bar 8 is not connected by a DMX-cable, it functions as a stand-alone device.
   If device is set to C01 , then the fixture can be manually controlled.
   Please see page 14 for more information about manual control Mode.

One LED Light Bar 8 (Built-in Programs, Macro Colors)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. When the LED Light Bar 8 is not connected by a DMX-cable, it functions as a stand-alone device.
   If device is set to P01 or AUTO , then the fixture will play one of its built-in programs or show one of its macro colors. Please see page 14 and 17 for more information about the built-in programs or macro colors.

One LED Light Bar 8 (Sound-control)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. When the LED Light Bar 8 is not connected by a DMX-cable, it functions as a stand-alone device. Turn on the music. If device is set to  (Audio) and you have pressed enter, then the fixture will react to the beat of the music. Please see page 13 for more information about the built-in programs.

Multiple LED Light Bars (Master/Slave control)

1. Fasten the effect light onto firm trussing. Leave at least 1 meter on all sides for air circulation.
2. Plug the end of the electric mains power cord into a proper electric power supply socket.
3. Use a 3-p XLR cable to connect the LED Light Bar.
   The pins:

1. Earth
2. Signal -
3. Signal +

4. Link the units as shown in (Fig. 3), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units. You can use the same functions on the master device as described on page 13-16 (Built-in Programs, Auto Run, Static Color or Music control). This means on the master device you can set your desired operation Mode and all slave devices will react the same as the master device.

Multiple LED Light Bars (Master/Slave control)

Fig. 3

Multiple LED Light Bars (DMX Control)

1. Fasten the effect light onto firm trussing. Leave at least 1 meter on all sides for air circulation.
2. Plug the end of the electric mains power cord into a proper electric power supply socket.
3. Use a 3-p XLR cable to connect the LED Light Bar and other devices.

Occupation of the XLR-connection:

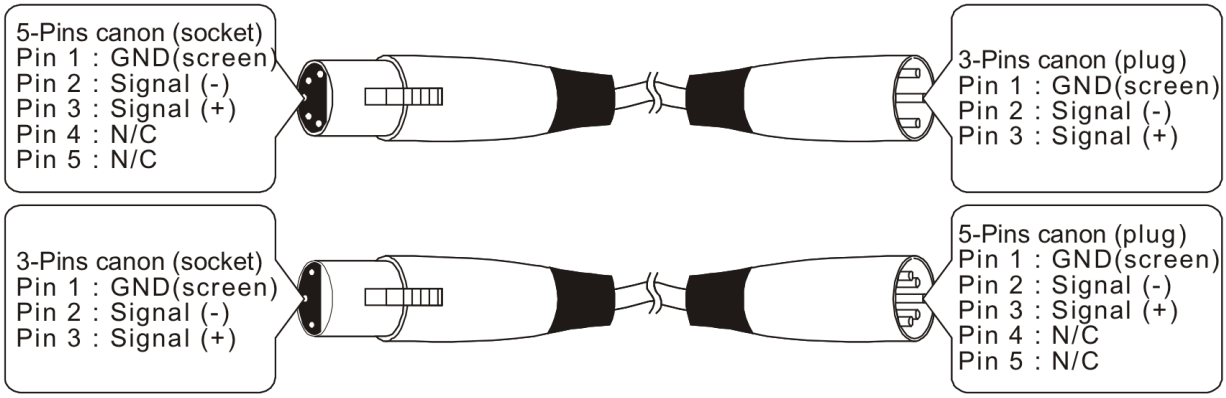
DMX-OUTPUT
XLR mounting-socket:

1 - Ground
2 - Signal (-)
3 - Signal (+)

DMX-input
XLR mounting-plug

1 - Ground
2 - Signal (-)
3 - Signal (+)

The transformation of the controller line of 3 pins and 5 pins (plug and socket)



4. Link the units as shown in (figure 4), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
5. Supply electric power: Plug electric mains power cords into each unit's IEC socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.

Multiple LED Light Bars DMX Set Up

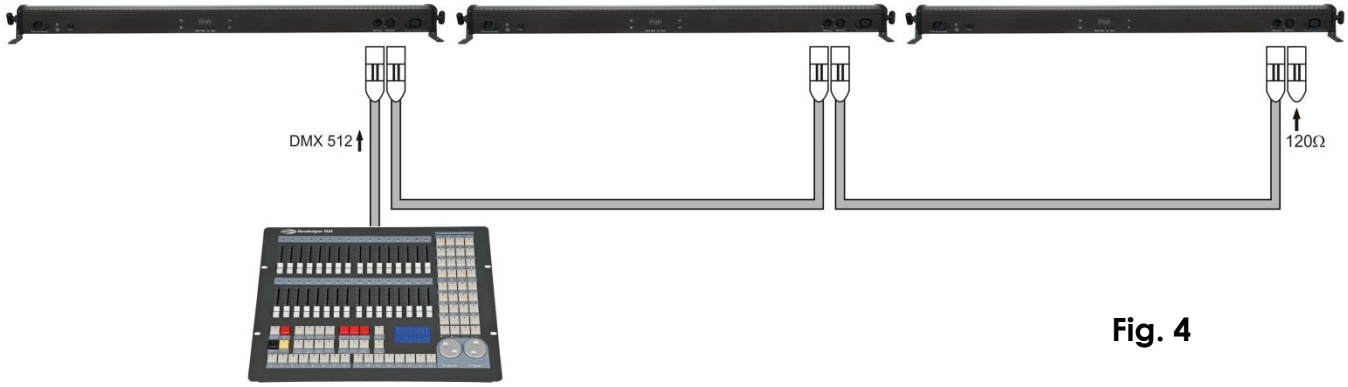


Fig. 4

Note : Link all cables before connecting electric power

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 30 devices should be connected on one data link. Connecting more than 30 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended DMX data link distance: 100 meters
Maximum recommended number of LED Light Bars on a DMX data link: 30 fixtures

Data Cabling

To link fixtures together you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

DAP Audio Certified DMX Data Cables

- DAP Audio Basic microphone cable for allround use. bal. XLR/M 3 p. > XLR/F 3 p. **Ordercode** FL01150 (1,5m.), FL013 (3m.), FL016 (6m.), FL0110 (10m.), FL0115 (15m.), FL0120 (20m.).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL71150 (1,5m.), FL713 (3m.), FL716 (6m.), FL7110 (10m.).

Control Panel

When the indicator light is on, means the LED Bar is working.

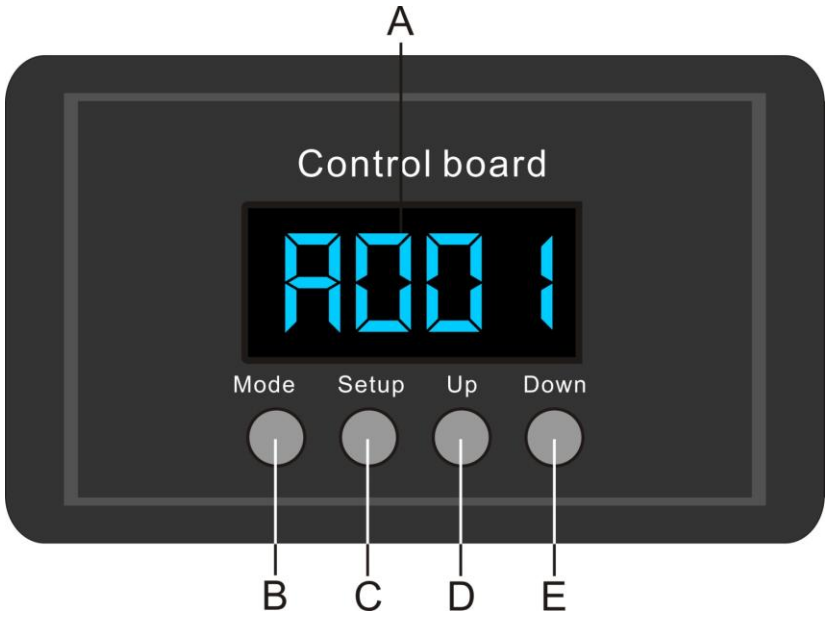


Fig. 5

A. LED Display
B. MODE Button
C. SETUP Button
D. Up Button
E. Down Button

DMX Control Mode

The fixtures are individually addressed on a data-link and connected to the controller.
The fixtures respond to the DMX signal from the controller.

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the LED Bar will respond to the controller.
Please note when you use the controller, the unit has max. **26** channels.
When using multiple LED Bars, make sure you set the DMX addresses right.
Therefore, the DMX address of the first LED Bar should be **1(A001)**; the DMX address of the second LED Bar should be **1+26=27 (A027**); the DMX address of the third LED Bar should be **27+26=53 (A053)**, etc.
Please, be sure that you don't have any overlapping channels in order to control each LED Bar correctly.
If two or more LED Bars are addressed similarly, they will work similarly.
For address settings, please refer to the instructions under "Addressing' (menu d001)

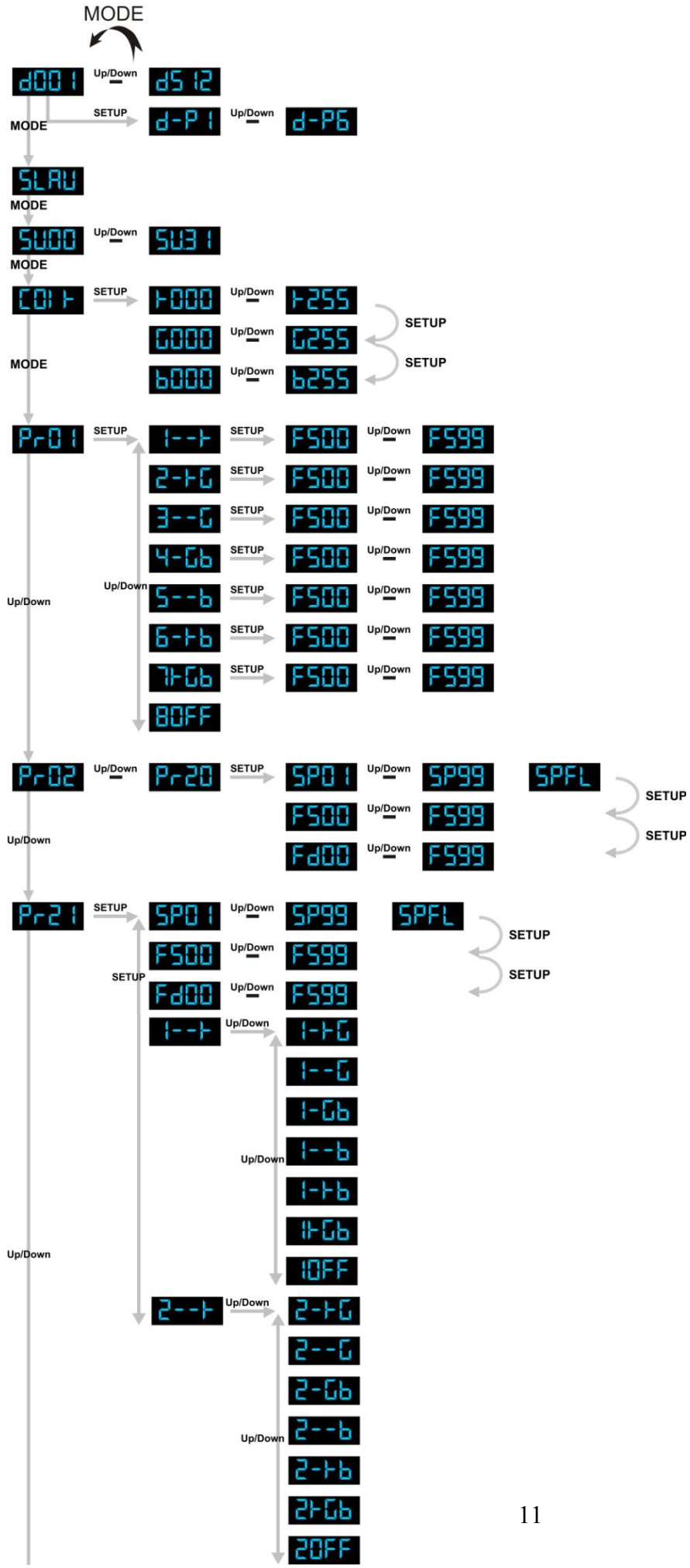
Controlling:

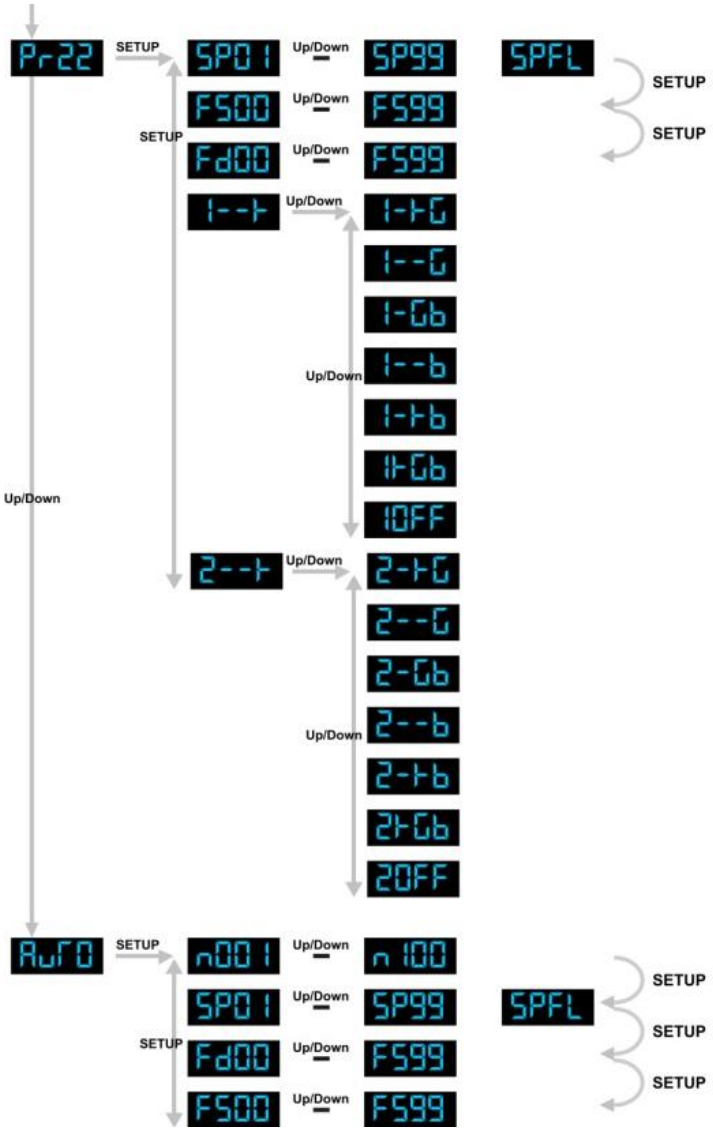
After having addressed all LED Bars, you may now start operating these via your lighting controller.
Note: After switching on, the LED Bar will automatically detect whether DMX 512 data is received or not.
If there is no data received at the DMX-input, the "**LED** " on the control panel will not flash.
The problem may be:

- The XLR cable from the controller is not connected with the input of the LED Light Bar.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

Menu Overview





Main Menu Options

dD01 DMX address

SLAU Slave

SU.00 Sound controlled

COLt Color

Pr01 Built-in Programs

AuTO Auto

1. DMX Mode

With this menu you can set the DMX address.

1) Press the **MODE** button, until the display shows  .

2) You can choose 512 different DMX addresses.
Use the Up / Down buttons to select the required address from  Up/Down  .

3) You can also press the **SETUP** button to set a different DMX Mode  Up/Down  .

 3 Channels

 4 Channels

 14 Channels

 26 Channels

 2 Channels

 7 Channels

2. Master / slave addressing

Master

1) The default setting for this device is master.

2) Only one fixture can be the master.

Note:

- Disconnect the fixture from the DMX controller before master/slave operating, otherwise data collisions may occur and the fixtures will not work properly!
- In master/slave mode, the master fixture can execute the built-in programs, all the slave fixtures will work the same.
- When operating the master/slave chain, you can identify the master fixture from the slave fixtures easily. The master doesn't have any cable plugged into the DMX input connector.

Slave control

This function allows you to control the slaves from the master's control panel in a master/slave operation.

1) Only 1 fixture can be the master, the others have to be Slaves. The Default setting for a device is Master. So on the first device you don't have to change anything.
On the slave devices you must press the MODE button until the display shows  .

2) All slave devices must have address  .

3. Sound control Mode

1) Press the **MODE** button on the device, until the display shows  . Turn on the music and the LED Light Bar will react to the beat of the music.

 Up/Down 

You can set the sensitivity from low-sensitivity to high-sensitivity between **SU.00** - **SU.31**.

4. Static Color Mode

With this menu you can set the DMX address.

1) Press the **MODE** button, until the display shows  .

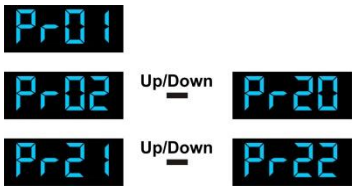
2) With this menu you can set 3 Static colors of the LED Light Bar.
You can choose **Red**, **Green** or **Blue** by pressing the Setup button.
Use the Up / Down buttons to select the values of each individual color from 000-255.

5. Built-in Programs

1) Press the **MODE** button on the device, until the display shows  .

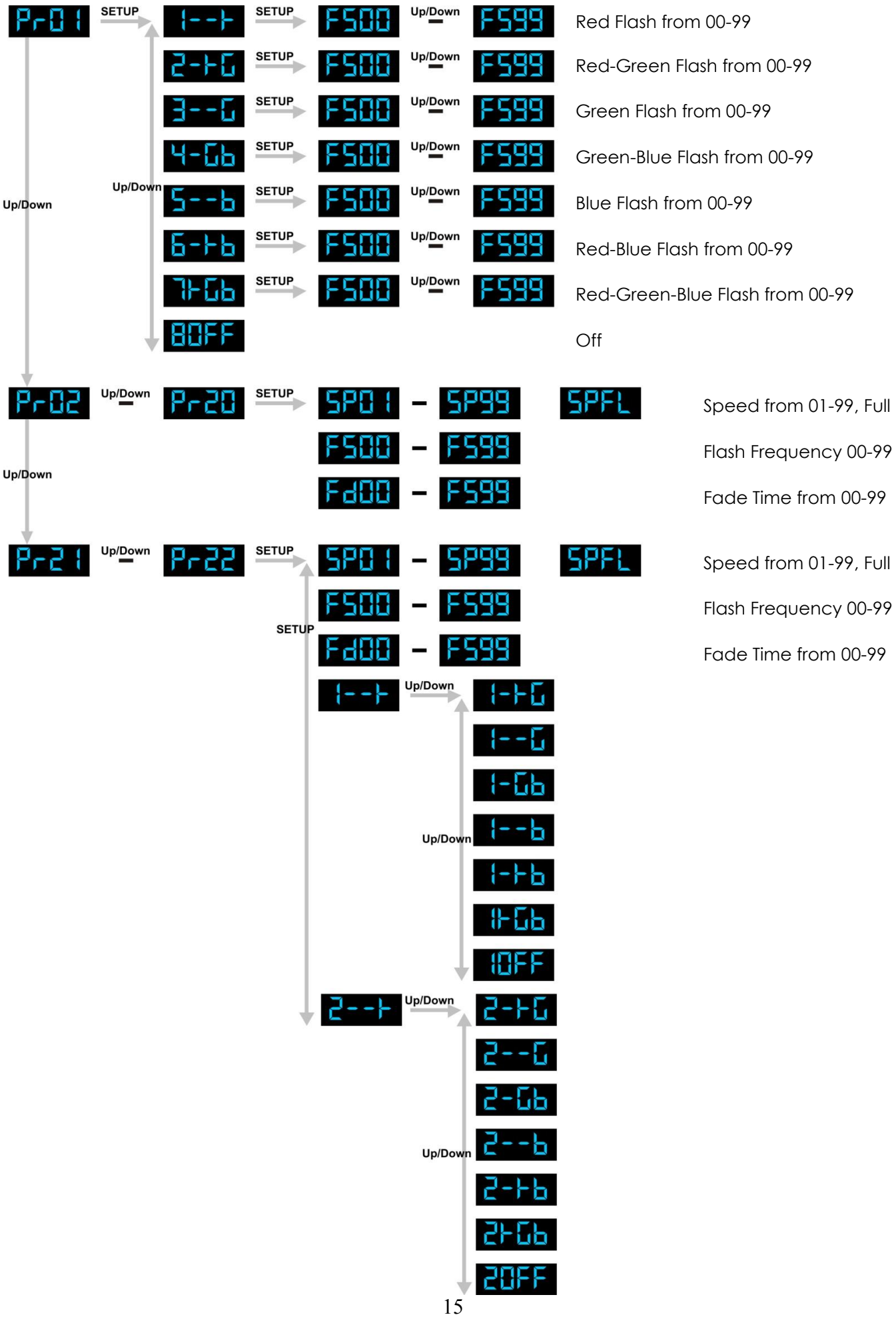
2) With this menu you can set the Built-in Program Mode of the LED Light Bar. You can choose 22 built-in programs  , by using the Up / Down buttons.

3) Press **Setup** to enter the built-in programs Menu. You can choose 3 different sub menus:



See the next page to view the complete menu.

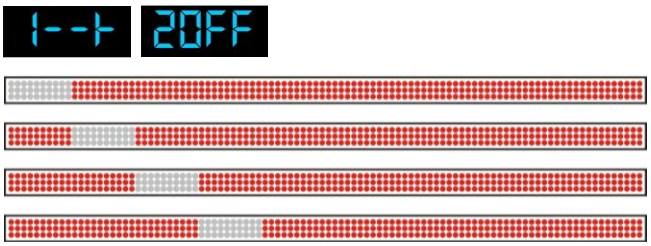
5. Built-in Programs

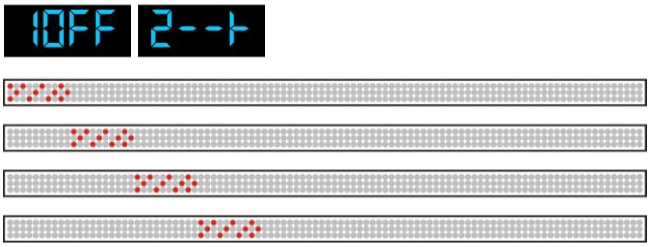


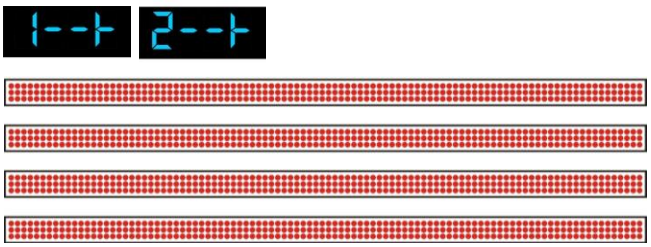
The specialty about menu 21 and 22 is, that you can combine both menus!!!!

Example

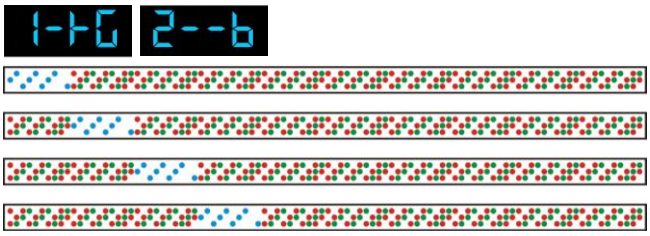
Menu 21

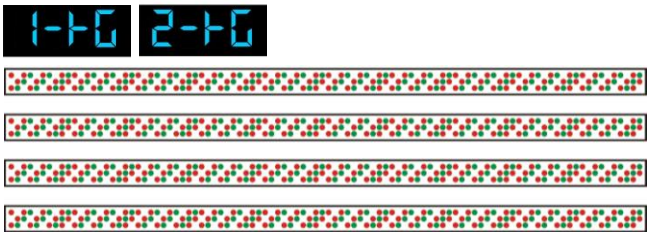


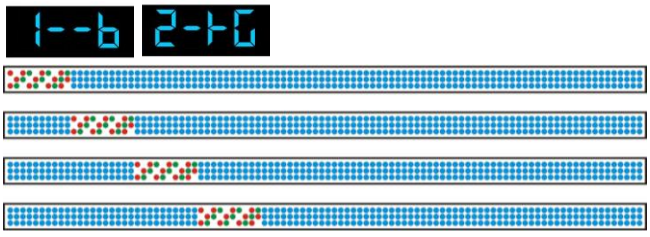


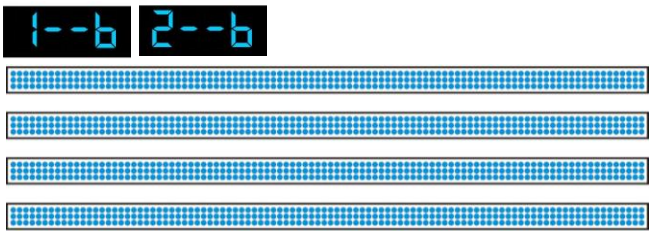


Menu 22









6. Auto Run Program

1) Press the **MODE** button on the device, until the display shows 

.

2) With this menu you can set the Auto Mode of the LED Light Bar.

3) Press **Setup** to enter the AUTO Menu. You can choose 4 different sub menus.

Number of Loops from 01-100

Speed from 01-99 and FL

Fade Time from 00-99

Flash Frequency from 00-99

Use the **SETUP** button to scroll through the menu.

DMX Channels

3 DMX Channels (d-P1)

Channel 1 – Red

0-255	Gradual adjustment Red from 0 – 100%

Channel 2 – Green

0-255	Gradual adjustment Green from 0 – 100%

Channel 3 – Blue

0-255	Gradual adjustment Blue from 0 – 100%

4 DMX Channels (d-P2)

Channel 1 – Red (Dimmer must be open ⚠)

0-255	Gradual adjustment Red from 0 – 100%

Channel 2 – Green (Dimmer must be open ⚠)

0-255	Gradual adjustment Green from 0 – 100%

Channel 3 – Blue (Dimmer must be open ⚠)

0-255	Gradual adjustment Blue from 0 – 100%

Channel 4 – Master Dimmer

0-255	Dimmer, from closed to open (0-100%)

14 DMX Channels (d-P3)

Channel 1 – Red Section 1

0-255	Gradual adjustment Red from 0 – 100%

Channel 2 – Green Section 1

0-255	Gradual adjustment Green from 0 – 100%

Channel 3 – Blue Section 1

0-255	Gradual adjustment Blue from 0 – 100%

Channel 4 – Red Section 2

0-255	Gradual adjustment Red from 0 – 100%

Channel 5 – Green Section 2

0-255	Gradual adjustment Green from 0 – 100%

Channel 6 – Blue Section 2

0-255	Gradual adjustment Blue from 0 – 100%

Channel 7 – Red Section 3

0-255	Gradual adjustment Red from 0 – 100%

Channel 8 – Green Section 3

0-255	Gradual adjustment Green from 0 – 100%

Channel 9 – Blue Section 3

0-255	Gradual adjustment Blue from 0 – 100%

Channel 10 – Red Section 4

0-255	Gradual adjustment Red from 0 – 100%

Channel 11 – Green Section 4

0-255	Gradual adjustment Green from 0 – 100%

Channel 12 – Blue Section 4

0-255	Gradual adjustment Blue from 0 – 100%

Channel 13 – Strobe (Dimmer must be open ⚠)

0-10	Shutter Open
11-255	Strobe effect from slow to fast

Channel 14 – Master Dimmer

0-255	Dimmer, from closed to open (0-100%)

26 DMX Channels (d-P4)

Channel 1 – Red Section 1

0-255	Gradual adjustment Red from 0 – 100%

Channel 2 – Green Section 1

0-255	Gradual adjustment Green from 0 – 100%

Channel 3 – Blue Section 1

0-255	Gradual adjustment Blue from 0 – 100%

Channel 4 – Red Section 2

0-255	Gradual adjustment Red from 0 – 100%

Channel 5 – Green Section 2

0-255	Gradual adjustment Green from 0 – 100%

Channel 6 – Blue Section 2

0-255	Gradual adjustment Blue from 0 – 100%

Channel 7 – Red Section 3

0-255	Gradual adjustment Red from 0 – 100%

Channel 8 – Green Section 3

0-255	Gradual adjustment Green from 0 – 100%

Channel 9 – Blue Section 3

0-255	Gradual adjustment Blue from 0 – 100%

Channel 10 – Red Section 4

0-255	Gradual adjustment Red from 0 – 100%

Channel 11 – Green Section 4

0-255	Gradual adjustment Green from 0 – 100%

Channel 12 – Blue Section 4

0-255	Gradual adjustment Blue from 0 – 100%

Channel 13 – Red Section 5

0-255	Gradual adjustment Red from 0 – 100%

Channel 14 – Green Section 5

0-255	Gradual adjustment Green from 0 – 100%

Channel 15 – Blue Section 5

0-255	Gradual adjustment Blue from 0 – 100%

Channel 16 – Red Section 6

0-255	Gradual adjustment Red from 0 – 100%

Channel 17 – Green Section 6

0-255	Gradual adjustment Green from 0 – 100%

Channel 18 – Blue Section 6

0-255	Gradual adjustment Blue from 0 – 100%

Channel 19 – Red Section 7

0-255	Gradual adjustment Red from 0 – 100%

Channel 20 – Green Section 7

0-255	Gradual adjustment Green from 0 – 100%

Channel 21 – Blue Section 7

0-255	Gradual adjustment Blue from 0 – 100%

Channel 22 – Red Section 8

0-255	Gradual adjustment Red from 0 – 100%

Channel 23 – Green Section 8

0-255	Gradual adjustment Green from 0 – 100%

Channel 24 – Blue Section 8

0-255	Gradual adjustment Blue from 0 – 100%

Channel 25 – Strobe (Dimmer must be open )

0-255	Strobe effect from slow to fast

Channel 26 – Master Dimmer

0-255	Dimmer, from closed to open (0-100%)

2 DMX Channels (d-P5)

Channel 1 – Color

0-7	No Function
8-15	Red
16-23	Yellow
24-31	Green
32-39	Cyan
40-47	Blue
48-55	Purple
56-63	White
64-71	Program 1
72-79	Program 2
80-87	Program 3
88-95	Program 4
96-103	Program 5
104-111	Program 6
112-119	Program 7
120-127	Program 8
128-135	Program 9
136-143	Program 10
144-151	Program 11
152-159	Program 12
160-167	Program 13
168-175	Program 14
176-183	Program 15
184-191	Program 16
192-199	Program 17
200-207	Program 18
208-215	Program 19
216-223	Program 20
224-231	Program 21
232-255	Sound Mode

Channel 2 – No Function (when Channel 1 is set between 1-7)

0-255	From slow to fast

Channel 2 – Speed (Channel 1 must be set between 8-231)

0-255	From slow to fast

Channel 2 – Sensitivity (Channel 1 must be set between 232-255)

0-255	From low to high sensitivity

7 DMX Channels (d-P6)

Channel 1 – Red

0-255	Gradual adjustment Red from 0 – 100%

Channel 2 – Green

0-255	Gradual adjustment Green from 0 – 100%

Channel 3 – Blue

0-255	Gradual adjustment Blue from 0 – 100%

Channel 4 – Color

0-7	No Function
8-15	Red
16-23	Yellow
24-31	Green
32-39	Cyan
40-47	Blue
48-55	Purple
56-63	White
64-71	Program 1
72-79	Program 2
80-87	Program 3
88-95	Program 4
96-103	Program 5
104-111	Program 6
112-119	Program 7
120-127	Program 8
128-135	Program 9
136-143	Program 10
144-151	Program 11
152-159	Program 12
160-167	Program 13
168-175	Program 14
176-183	Program 15
184-191	Program 16
192-199	Program 17
200-207	Program 18
208-215	Program 19
216-223	Program 20
224-231	Program 21
232-255	Sound Mode

Channel 5 – No Function (when Channel 4 is set between 1-7 ⚠)

0-255	From slow to fast

Channel 5 – Speed (Channel 4 must be set between 8-231⚠)

0-255	From slow to fast

Channel 5 – Sensitivity (Channel 4 must be set between 232-255⚠)

0-255	From low to high sensitivity

Channel 6 – No Function when Channel 4 is set between 1-7 or 232-255 ⚠)

0-255	From slow to fast

Channel 6 – Strobe (Channel 4 must be set between 8-231 ⚠)

0-255	Strobe effect from slow to fast

Channel 7 – Master Dimmer

0-255	Dimmer, from closed to open (0-100%)

Maintenance

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every four years in the course of an acceptance test.
The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

The LED Light Bar 8 requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Replacing a Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.

1. Unplug the unit from electric power source.
2. Insert a flat-head screwdriver into a slot in the fuse cover. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). The fuse will come out.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

No Light

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
If the light effect does not operate properly, refer servicing to a technician.
Response: Suspect three potential problem areas: the power supply, the LEDs, the fuse.

1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The LEDs. Return the LED Light Bar to your Showtec dealer.
3. The fuse. Replace the fuse. See page 23 for replacing the fuse.
4. If all of the above appears to be O.K., plug the unit in again.
5. If you are unable to determine the cause of the problem, do not open the LED Light Bar, as this may damage the unit and the warranty will become void.
6. Return the device to your Showtec dealer.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.
Response: Suspect three potential problem areas: the power supply, the lamp, the fuse.

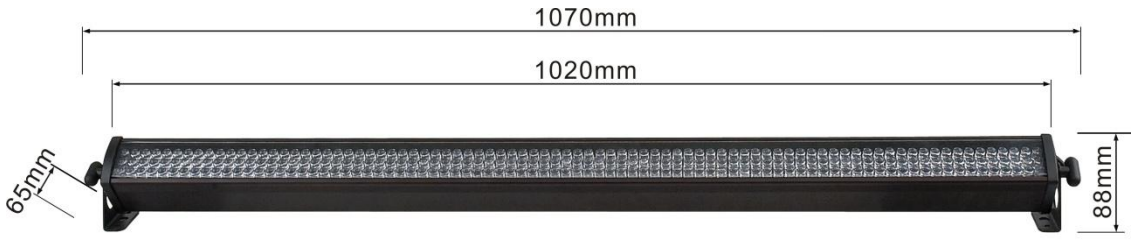
1. Check the DMX setting. Make sure that DMX addresses are correct.
2. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
3. Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products ? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

See next page for more problem solving.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	No power to the fixture	• Check that power is switched on and cables are plugged in.
	Primary fuse blown.	• Replace fuse.
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	• Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	• Install a phase reversing cable between the controller and the first fixture on the link.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	• Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	• Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	• Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures.	• Check address setting.
	One of the fixtures is defective and disturbs data transmission on the link.	• Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. • Have the defective fixture serviced by a qualified technician.
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	• Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
No light or lamp cuts out intermittently	Fixture is too hot.	• Allow fixture to cool. • Clean fan. • Make sure air vents at control panel and front lens are not blocked. • Turn up the air conditioning .
	LEDs damaged	• Disconnect fixture and return to your dealer.
	The power supply settings do not match local AC voltage and frequency.	• Disconnect fixture. Check settings and correct if necessary.

Product Specification

Model: Showtec LED Light Bar 8
LEDs: 240 RGB high intensity 10mm LEDs (Red 96, Green 72, Blue 72)
Beam angle: 30 °
Inexpensive batten effect
8 sections
Compact size
Output: 800Lumen
Lux @2m: 613,3
Max. Distance: 15m
Efficacy (lm/W) 36W
Drive Current: 25mA
Refresh rate: 400Hz
Color Range: RGB
Power Supply: 100-240V AC
Control Mode: DMX512
Dimmer: 0-100%
Strobe: 0-20Hz
Peak Power 130 Watt
Continuous Power 60 Watt
3 pin female XLR socket and 3 pin male XLR socket
IEC Power In and IEC power Out
Linkable via 3-pin XLR cable
Built-in microphone
Black aluminium material
LED Digital display
Fuse: 250V / 1A
Built-in programs mode, Auto running mode, DMX mode, slave mode, sound-activated mode.
DMX controlled
Selectable 2, 3, 4, 7, 14 and 26 DMX channel operation
Dimensions: 1070 x 65 x 88 mm (LxWxH)
Weight: 1,74 kg



Design and product specifications are subject to change without prior notice.

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